

**TRANSMITTAL OF
UTILITY
APPLICATION
UNDER 37
C.F.R. §1.53**

Attorney Docket No.	24736-2073
Customer No.	24961
First Named Inventor	VAN DEN BOOM
Express Mail Label No.	EV 417728346 US
Date of Mailing	November 26, 2003

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10/723365



Application Elements		Accompanying Application Papers
1. [X] Fee Transmittal Form 2. [X] Specification containing <u>160</u> pages (including claims and Abstract). a. Title: FRAGMENTATION-BASED METHODS AND SYSTEMS FOR SEQUENCE VARIATION DETECTION AND DISCOVERY b. Number of claims: <u>73</u> 3. [X] <u>4</u> sheets of drawings with <u>1-4</u> Figure(s). 4. [] Unexecuted Declaration listing name of inventor(s). 5. [X] Sequence Listing (<u>41</u> pages): [X] Paper copy (identical to computer copy) [X] Computer readable copy [X] Verified Statement		6. [] Copy of Assignments from prior application 7. [X] Small Entity Status is claimed 8. [] Preliminary Amendment 9. [X] Return Receipt Postcard
SIGNATURE OF ATTORNEY/AGENT  HELLER EHRLMAN WHITE & McAULIFFE LLP Stephanie Seidman Registration Number: 33,779		

[X] Benefit of priority under 35 U.S.C. Section 119(e) is claimed to U.S. Provisional Application Serial No. 60/429,895, filed November 27, 2002. The subject matter of each of the Provisional applications is incorporated by reference in its entirety.

CORRESPONDENCE ADDRESS

NAME	Stephanie Seidman Registration No. 33,779 Heller Ehrman White & McAuliffe LLP	
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**FEE TRANSMITTAL
ACCOMPANYING UTILITY
APPLICATION UNDER
37 C.F.R. §1.53**

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FEE CALCULATION FOR CLAIMS AS AMENDED

a) Basic Fee	\$ 770.00
b) Independent Claims $\frac{9}{2} - \frac{3}{2} = \frac{6}{2} \times \$ 86.00$	\$ 516.00
c) Total Claims $\frac{73}{2} - \frac{20}{2} = \frac{53}{2} \times \$ 18.00$	\$ 954.00
d) Fee for Multiple Dependent Claims- \$290.00	\$ 0.00

TOTAL FILING FEE **\$ 2,240.00**

- [X] Status as Small Entity is claimed, reducing Fee by one-half to **\$ 1,120.00**.
- [X] A check in the amount of **\$ 1,120.00** to cover the fee for filing the application.
- [] Charge **\$.00** to Deposit Account No. 50-1213.
- [X] The Commissioner is hereby authorized to charge any fees, including the filing fee and excess claims fee, that may be required in this application under 37 C.F.R. §§ 1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 50-1213. If proper payment is not enclosed, such as a check in the wrong amount, unsigned, post-dated, otherwise improper or informal, or absent, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213 during the entire pendency of this application. This sheet is filed in duplicate.

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Submitted by:

Typed or printed name	Stephanie Seidman	Reg. Number	33,779
Signature		Date	11/26/03